## Amendments to the Claims:

OK to enter 6.20,05 TNT Claims 1-35 (Canceled)

- 36. (Currently amended) A transgenic mouse whose genome comprises a null endogenous limulus clotting factor protease-like allele; said allele comprising a coding sequence comprising the sequence of SEQ ID NO.:1; said null allele comprising exogenous DNA, said exogenous DNA comprising a gene encoding a visible marker, wherein said visible marker is capable of expression in the brain.
- 37. (Previously presented) The transgenic mouse of claim 36 wherein the mouse is heterozygous for said null allele.
- 38. (Previously presented) The transgenic mouse of claim 36 wherein the mouse is homozygous for said null allele.
- 39. (Previously presented) The transgenic mouse of claim 36, wherein the mouse exhibits, relative to a wild-type control mouse, at least one of the following phenotypes: increased sensitivity to pain and increased susceptibility to seizure.
- 40. (Previously presented) The transgenic mouse of claim 39, wherein the transgenic mouse exhibits a decreased latency to respond to a thermal stimulus, relative to a wild-type control mouse.
- 41. (Previously presented) The transgenic mouse of claim 39, wherein the transgenic mouse requires a lower dose of metrazol to reach characteristic stages of seizure.
- 42. (Currently amended) The transgenic mouse of claim 36 44 wherein said <u>null allele further</u> comprises a gene encoding a visible marker is lacZ gene.
- 43. (Currently amended) The transgenic mouse of claim 36 wherein said <u>null allele</u> -further comprises a gene encoding a selection marker.
- 44. (Previously presented) The transgenic mouse of claim 43 wherein said gene is a neomycin resistant gene.
- 45. (Currently amended) A method of producing the transgenic mouse of claim 36, the method comprising:
  - a) providing a mouse embryonic stem cell comprising the null protease allele, said allele comprising a coding sequence comprising the sequence of SEQ ID NO:1;
  - b) introducing the mouse embryonic stem cell into a blastocyst;